

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	440	semiconductor and ((dielectric or insulat\$3 or \$2oxide\$2) with ((air or vacuum) near2 (gap or space or area or region or void))) and (etch\$2 near2 (stop\$3 or barrier))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/02/15 16:01
L2	330	1 and (@ad<"20021115" or @rlad<"20021115")	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/02/15 15:43
L3	210	2 and (spacer or sidewall or (side adj wall))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/02/15 15:43
L4	148	2 and ((spacer or sidewall or (side adj wall)) with (gap or void or area or region))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/02/15 15:45
L5	6	(semiconductor and ((dielectric or insulat\$3 or \$2oxide\$2) with ((air or vacuum) near2 (gap or space or area or region or void))) and (etch\$2 near2 (stop\$3 or barrier))).clm.	US-PGPUB	OR	ON	2006/02/15 16:02
L25	3630	257/758.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/02/15 16:09
L26	365	257/522.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/02/15 16:06
S1	1	"20050067673"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 12:35
S2	40	geffken-robert-m.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 12:36
S3	64	Motsiff-William-T.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 12:36
S4	96	S2 S3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 12:37
S5	11	("0023123" "0127844" "5324683" "6150232" "6200900" "6281585" "6329279" "6423629" "6472266").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/28 15:15
S6	1	"20050067673"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 14:30
S7	40	geffken-robert-m.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 14:30

S8	64	Motsiff-William-T.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 15:57
S9	96	S7 S8	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 14:30
S10	11	("0023123" "0127844" "5324683" "6150232" "6200900" "6281585" "6329279" "6423629" "6472266").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 14:30
S11	12	("4997746"   "5439847"   "5641712"   "5759913"   "5792706"   "5814555"   "5869880"   "5900668"   "5955786"   "6078088"   "6100205"   "6200900").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/27 15:09
S12	2	("5324683"   "5407860").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/27 15:16
S13	33	("5759913").URPN.	USPAT	OR	ON	2005/04/27 15:20
S14	3	("3689992"   "5148260"   "5171713").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/27 15:50
S15	145	("5324683").URPN.	USPAT	OR	ON	2005/04/27 15:52
S16	8	S9 and (air adj (gap or region or void or space\$3 or area))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/28 15:15
S17	1707	(interconnect\$4 or interlevel or inter-level) with (air adj (gap or region or void or space\$3 or area))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 16:02
S18	1675	S17 not (S9 S10 S11 S12 S13 S14 S16)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 16:03
S19	673	S18 and (spacer or sidewall or (side adj wall))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 16:04
S20	30	S19 and ((etch\$4 adj stop) and barrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 16:05
S21	30	S20 and (air adj (gap or region or void or space\$3 or area))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/27 16:08
S22	10	("5310700"   "5324683"   "5476817"   "5639688"   "5641712"   "5654240"   "5666398"   "5783481"   "5814555"   "5987372").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/27 16:34
S23	5	("6268277").URPN.	USPAT	OR	ON	2005/04/27 16:42
S24	356	S19 not (S21 S22 S23)	USPAT	OR	ON	2005/04/27 16:42
S25	12	S24 and (etch\$4 adj stop\$4)	USPAT	OR	ON	2005/04/27 16:43
S26	80	"5510645"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/28 15:14

S27	32	S26 and (air adj (gap or region or void or space\$3 or area or via or trench or open\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/28 15:38
S28	6	"6211057"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/28 15:28
S29	21	("3689992"   "5310700"   "5324683"   "5407860"   "5444015"   "5461003"   "5510645"   "5641712"   "5750415"   "5759913"   "5814555"   "5837618"   "5924006"   "5932490"   "5949143"   "6025260"   "6054381"   "6071805"   "6077767"   "6093633"   "6130151").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/28 15:32
S30	1	"6545361"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/28 15:32
S31	16	("5126817"   "5148260"   "5171713"   "5232866"   "5324683"   "5438015"   "5466630"   "5510645"   "5512775"   "5665250"   "5668398"   "5759913"   "5814888"   "5837618"   "6130151"   "6136687").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/28 15:32
S32	0	("6545361").URPN.	USPAT	OR	ON	2005/04/28 15:33
S33	455	(air adj (gap or region or void or space\$3 or area or via or trench or open\$3)) and (etch\$3 adj stop) and (spacer or sidewall or (side adj wall))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/28 15:40
S34	450	S33 not (S26 S27 S28 S29 S30 S31)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/28 15:40
S35	35	S34 and (air adj (gap or region or void or space\$3 or area or via or trench or open\$3)).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/28 16:06
S36	211	lur-water.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/28 16:06
S37	14	(US-20020014679-\$ or US-20020127844-\$ or US-20040097065-\$ or US-20050067673-\$).did. or (US-5324683-\$ or US-5510645-\$ or US-5759913-\$ or US-6200900-\$ or US-6413852-\$ or US-6492732-\$ or US-6531376-\$ or US-6545361-\$ or US-6737725-\$ or US-6838354-\$).did.	US-PGPUB; USPAT	OR	ON	2005/08/11 11:11
S38	14	(US-20020014679-\$ or US-20020127844-\$ or US-20040097065-\$ or US-20050067673-\$).did. or (US-5324683-\$ or US-5510645-\$ or US-5759913-\$ or US-6200900-\$ or US-6413852-\$ or US-6492732-\$ or US-6531376-\$ or US-6545361-\$ or US-6737725-\$ or US-6838354-\$).did.	US-PGPUB; USPAT	OR	ON	2005/10/02 15:31
S39	0	("2004/0097065").URPN.	USPAT	OR	ON	2005/10/02 15:32
S40	1	"6727159"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/02 15:34
S41	5	"6177239"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/02 15:35

S42	13	"6177329"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/02 15:35
S43	70	("20020028575"   "20020081787"   "20020098677"   "20020106888"   "20020127844"   "20020145201"   "20020158337"   "20020163082"   "4789648"   "4920639"   "5324683"   "5354711"   "5407860"   "5466639"   "5510645"   "5599745"   "5612254"   "5614765"   "5635423"   "5702982"   "5705430"   "5708303"   "5736457"   "5744376"   "5753967"   "5783864"   "5801094"   "5821169"   "5847439"   "5880018"   "5880026"   "5949143"   "5972758"   "5989997"   "5990015"   "5998293"   "6001414"   "6004883"   "6017817"   "6025259"   "6027994"   "6037249"   "6042996"   "6042999"   "6054381"   "6057239"   "6063711"   "6071805"   "6077767"   "6077769"   "6083821"   "6130151"   "6143641"   "6159840"   "6162723"   "6163066"   "6177329"   "6200891"   "6200900"   "6204165"   "6204200"   "6208015"   "6211057"   "6211561"   "6228770"   "6242336"   "6291030"   "6297125"   "6376330"   "6380106"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/02 15:35
S44	53	("4182023"   "4675074"   "4681655"   "4899439"   "4920639"   "5000818"   "5001079"   "5117276"   "5141896"   "5182225"   "5217926"   "5241193"   "5272100"   "5310700"   "5324683"   "5386142"   "5393709"   "5407860"   "5413962"   "5426072"   "5444015"   "5451804"   "5462884"   "5488015"   "5498571"   "5512775"   "5530280"   "5545919"   "5559049"   "5559055"   "5567982"   "5641712"   "5646067"   "5665632"   "5668398"   "5710079"   "5716861"   "5736446"   "5741736"   "5759913"   "5770507"   "5783864"   "5791706"   "5814555"   "5832601"   "5847464"   "5869374"   "5869379"   "5900668"   "5953626"   "5959337"   "5994776"   "5998293").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/02 15:37
S45	6	("6376330").URPN.	USPAT	OR	ON	2005/10/02 15:56
S46	8	((("6184121" or ("6159840" or ("6642138" or ("6440876" or ("6159845" or ("6140249" or ("20030109127" or ("6252290"))). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2005/10/02 15:58
S47	16	("0023123" "0127844" "20040097065" "5324683" "5510645" "61 50232" "6200900" "6211057" "6281585" "6329279" "6423629" " 6472266" "6545361" "6838354").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/02 15:58
S48	9	("20010044181"   "20010045658"   "6074908"   "6110775"   "6140200"   "6165839"   "6168989"   "6229174"   "6300667"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/02 16:01
S49	8	("6472266").URPN.	USPAT	OR	ON	2005/10/02 16:41
S50	0	10/605440	USPAT	OR	ON	2005/10/02 16:41
S51	1	10/605440	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/02 16:41
S52	20	(US-20020014679-\$ or US-20020127844-\$ or US-20040097065-\$ or US-20050067673-\$).did. or (US-5324683-\$ or US-5510645-\$ or US-5759913-\$ or US-6200900-\$ or US-6413852-\$ or US-6492732-\$ or US-6531376-\$ or US-6545361-\$ or US-6737725-\$ or US-6838354-\$ or US-6917109-\$ or US-6376330-\$ or US-5998293-\$ or US-5117276-\$ or US-5599745-\$ or US-6472266-\$).did.	US-PGPUB; USPAT	OR	ON	2005/10/03 13:36
S53	10	("3539705"   "3846166"   "4096623"   "4164461"   "4308090"   "4601915"   "4670091"   "4849070").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/03 13:50
S54	94	("5117276").URPN.	USPAT	OR	ON	2005/10/03 13:52
S55	525	(interconnect\$3 and spacer and (air adj (gap or groove or open\$3)) and substrate)	USPAT	OR	ON	2005/10/03 14:10
S56	97	S55 and (etch\$3 adj stop\$3) and (air adj gap)	USPAT	OR	ON	2005/10/03 13:54

S57	22	("5759913"   "5773892"   "5792706"   "6177329"   "6200900"   "6208015"   "6214719"   "6261883"   "6268277"   "6287979"   "6297125"   "6303464"   "6355551"   "6368939"   "6376330"   "6399476"   "6423630"   "6492732"   "6501179"   "6504237"   "6524948"   "6627529").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/03 13:57
S58	0	(S55 not (S56 S57)) and (contact\$3 or plug) and (etch\$3 adj stop\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/03 14:11
S59	378	(S55 not (S56 S57)) and (contact\$3 or plug)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/03 14:11
S60	215	S59 and (insulat\$4 or dielectric) and semiconductor	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/03 14:12
S61	117	S60 and (spacer and ("SiO" or "SiO.sub.2" or (silicon adj dioxide) or "SiN" or (silicon adj nitride)))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/03 14:14
S62	110	S61 and metal\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/03 14:18
S63	16	S62 and (air adj gap).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/03 14:18
S64	4	("5747880"   "6228763"   "6277728"   "6329279").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/03 14:19